

ABSTRACT OF THE DISCLOSURE

An integrated I/O controller in an integrated circuit is provided for centralized data management. The integrated circuit includes a host interface, a disk interface, and a mapping controller implemented in hardware to speed data processing and provide fault tolerance as exemplified with RAID configurations. The mapping controller provides block mapping across a plurality of peripherals or disk drives in a disk array. The integrated I/O controller can be utilized in storage area network systems and network area storage systems as well as other networking systems or devices.